

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : SC DHEC
Address : 2600 Bull Street
Columbia, South Carolina 29201

Report Date: August 31, 2007

Contact: Mr. Mike Gandy

Project: SC DHEC ChemNuc GW

Page 1 of 2

Client Sample ID: 082707-027
Sample ID: 192569002
Matrix: Ground Water
Collect Date: 27-AUG-07 10:15
Receive Date: 28-AUG-07
Collector: Client

Project: DHEC00105
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Rad Gamma Spec Analysis

GammaSpec, Gamma, Liquid (Standard List)

Rad Gas Flow Proportional Counting

GFPC, Gross Alpha/Beta, liquid

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Liquid

Tritium	U	ND	+/-301	554	700	pCi/L		BXF1	08/29/07	1708	665053	3
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Volatile Organics

GEL 8260B Method List Liquid

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 901.1	
2	EPA 900.0	
3	EPA 906.0 Modified	
4	SW846 8260B	

Notes:

The Qualifiers in this report are defined as follows :

** Analyte is a surrogate compound

< Result is less than value reported

> Result is greater than value reported

A The TIC is a suspected aldol-condensation product

B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.

BD Results are either below the MDC or tracer recovery is low

C Analyte has been confirmed by GC/MS analysis

D Results are reported from a diluted aliquot of the sample

E Organics--Concentration of the target analyte exceeds the instrument calibration range

H Analytical holding time was exceeded

J Value is estimated

M M if above MDC and less than LLD

N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Quantitation is based on nearest internal standard response factor

N/A RPD or %Recovery limits do not apply.

ND Analyte concentration is not detected above the detection limit

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Client Sample ID: 082707-027
Sample ID: 192569002

Project: DHEC00105
Client ID: DHEC002

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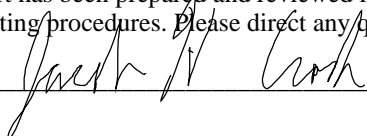
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P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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Client Sample ID: 082707-028
Sample ID: 192569003
Matrix: Ground Water
Collect Date: 27-AUG-07 10:45
Receive Date: 28-AUG-07
Collector: Client

Project: DHEC00105
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Rad Gamma Spec Analysis

GammaSpec, Gamma, Liquid (Standard List)

Rad Gas Flow Proportional Counting

GFPC, Gross Alpha/Beta, liquid

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Liquid

Tritium	U	ND	+/-336	553	700	pCi/L		BXF1	08/29/07	1724	665053	3
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Volatile Organics

GEL 8260B Method List Liquid

The following Analytical Methods were performed

Method	Description	Analyst Comments
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2	EPA 900.0	
3	EPA 906.0 Modified	
4	SW846 8260B	

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E Organics--Concentration of the target analyte exceeds the instrument calibration range

H Analytical holding time was exceeded

J Value is estimated

M M if above MDC and less than LLD

N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Quantitation is based on nearest internal standard response factor

N/A RPD or %Recovery limits do not apply.

ND Analyte concentration is not detected above the detection limit

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Client Sample ID: 082707-028
Sample ID: 192569003

Project: DHEC00105
Client ID: DHEC002

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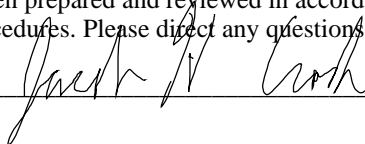
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Page 1 of 2

Client Sample ID: 082707-029
Sample ID: 192569004
Matrix: Ground Water
Collect Date: 27-AUG-07 11:15
Receive Date: 28-AUG-07
Collector: Client

Project: DHEC00105
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Rad Gamma Spec Analysis

GammaSpec, Gamma, Liquid (Standard List)

Rad Gas Flow Proportional Counting

GFPC, Gross Alpha/Beta, liquid

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Liquid

Tritium	U	ND	+/-314	552	700	pCi/L		BXF1	08/29/07	1741	665053	3
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Volatile Organics

GEL 8260B Method List Liquid

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2	EPA 900.0	
3	EPA 906.0 Modified	
4	SW846 8260B	

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- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
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Page 2 of 2

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Sample ID: 192569004

Project: DHEC00105
Client ID: DHEC002

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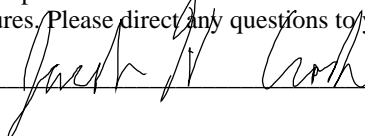
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Page 1 of 2

Client Sample ID: 082707-030
Sample ID: 192569005
Matrix: Ground Water
Collect Date: 27-AUG-07 09:45
Receive Date: 28-AUG-07
Collector: Client

Project: DHEC00105
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Rad Gamma Spec Analysis

GammaSpec, Gamma, Liquid (Standard List)

Rad Gas Flow Proportional Counting

GFPC, Gross Alpha/Beta, liquid

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Liquid

Tritium	U	ND	+/-324	549	700	pCi/L		BXF1	08/29/07	1757	665053	3
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Volatile Organics

GEL 8260B Method List Liquid

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 901.1	
2	EPA 900.0	
3	EPA 906.0 Modified	
4	SW846 8260B	

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E Organics--Concentration of the target analyte exceeds the instrument calibration range

H Analytical holding time was exceeded

J Value is estimated

M M if above MDC and less than LLD

N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Quantitation is based on nearest internal standard response factor

N/A RPD or %Recovery limits do not apply.

ND Analyte concentration is not detected above the detection limit

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Page 2 of 2

Client Sample ID: 082707-030
Sample ID: 192569005

Project: DHEC00105
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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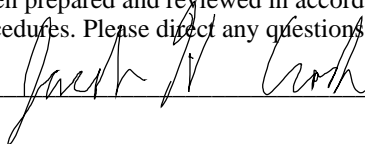
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Page 1 of 2

Client Sample ID: 082707-031N
Sample ID: 192569006
Matrix: Ground Water
Collect Date: 27-AUG-07 13:30
Receive Date: 28-AUG-07
Collector: Client

Project: DHEC00105
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Rad Gamma Spec Analysis

GammaSpec, Gamma, Liquid (Standard List)

Rad Gas Flow Proportional Counting

GFPC, Gross Alpha/Beta, liquid

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Liquid

Tritium	U	ND	+/-329	549	700	pCi/L		BXF1	08/29/07	1813	665053	3
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Volatile Organics

GEL 8260B Method List Liquid

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 901.1	
2	EPA 900.0	
3	EPA 906.0 Modified	
4	SW846 8260B	

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D Results are reported from a diluted aliquot of the sample

E Organics--Concentration of the target analyte exceeds the instrument calibration range

H Analytical holding time was exceeded

J Value is estimated

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N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Quantitation is based on nearest internal standard response factor

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ND Analyte concentration is not detected above the detection limit

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Page 2 of 2

Client Sample ID: 082707-031N
Sample ID: 192569006

Project: DHEC00105
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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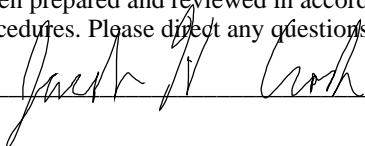
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Page 1 of 2

Client Sample ID: 082707-032S
Sample ID: 192569007
Matrix: Ground Water
Collect Date: 27-AUG-07 13:45
Receive Date: 28-AUG-07
Collector: Client

Project: DHEC00105
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Rad Gamma Spec Analysis

GammaSpec, Gamma, Liquid (Standard List)

Rad Gas Flow Proportional Counting

GFPC, Gross Alpha/Beta, liquid

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Liquid

Tritium	U	ND	+/-337	553	700	pCi/L		BXF1	08/29/07	1830	665053	3
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Volatile Organics

GEL 8260B Method List Liquid

The following Analytical Methods were performed

Method	Description	Analyst Comments
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2	EPA 900.0	
3	EPA 906.0 Modified	
4	SW846 8260B	

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Sample ID: 192569007

Project: DHEC00105
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Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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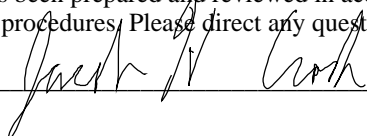
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Client Sample ID: 082707-033
Sample ID: 192569008
Matrix: Ground Water
Collect Date: 27-AUG-07 14:30
Receive Date: 28-AUG-07
Collector: Client

Project: DHEC00105
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Rad Gamma Spec Analysis

GammaSpec, Gamma, Liquid (Standard List)

Rad Gas Flow Proportional Counting

GFPC, Gross Alpha/Beta, liquid

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Liquid

Tritium	U	ND	+/-323	550	700	pCi/L		BXF1	08/29/07	1846	665053	3
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Volatile Organics

GEL 8260B Method List Liquid

The following Analytical Methods were performed

Method	Description	Analyst Comments
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2	EPA 900.0	
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Client Sample ID: 082707-033
Sample ID: 192569008

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Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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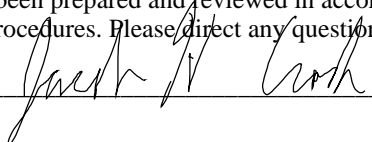
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI Gamma Spectroscopy--Uncertain identification
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on an "as received" basis.

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Reviewed by



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Certificate of Analysis

Company : SC DHEC
Address : 2600 Bull Street
Columbia, South Carolina 29201

Report Date: August 31, 2007

Contact: Mr. Mike Gandy

Project: SC DHEC ChemNuc GW

Page 1 of 2

Client Sample ID: 082707-034
Sample ID: 192569009
Matrix: Ground Water
Collect Date: 27-AUG-07 15:00
Receive Date: 28-AUG-07
Collector: Client

Project: DHEC00105
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
-----------	-----------	--------	-------------	----	----	-------	----	---------	------	------	-------	--------

Rad Gamma Spec Analysis

GammaSpec, Gamma, Liquid (Standard List)

Rad Gas Flow Proportional Counting

GFPC, Gross Alpha/Beta, liquid

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Liquid

Tritium	U	ND	+/-330	548	700	pCi/L		BXF1	08/29/07	1903	665053	3
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Volatile Organics

GEL 8260B Method List Liquid

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 901.1	
2	EPA 900.0	
3	EPA 906.0 Modified	
4	SW846 8260B	

Notes:

The Qualifiers in this report are defined as follows :

** Analyte is a surrogate compound

< Result is less than value reported

> Result is greater than value reported

A The TIC is a suspected aldol-condensation product

B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.

BD Results are either below the MDC or tracer recovery is low

C Analyte has been confirmed by GC/MS analysis

D Results are reported from a diluted aliquot of the sample

E Organics--Concentration of the target analyte exceeds the instrument calibration range

H Analytical holding time was exceeded

J Value is estimated

M M if above MDC and less than LLD

N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Quantitation is based on nearest internal standard response factor

N/A RPD or %Recovery limits do not apply.

ND Analyte concentration is not detected above the detection limit

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Report Date: August 31, 2007

Page 2 of 2

Client Sample ID: 082707-034
Sample ID: 192569009

Project: DHEC00105
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
-----------	-----------	--------	-------------	----	----	-------	----	---------	------	------	-------	--------

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P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%

R Sample results are rejected

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

UI Gamma Spectroscopy--Uncertain identification

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

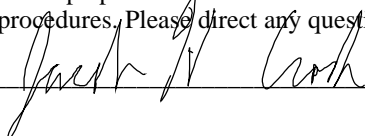
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Page 1 of 2

Client Sample ID: 082707-035
Sample ID: 192569010
Matrix: Ground Water
Collect Date: 27-AUG-07 15:15
Receive Date: 28-AUG-07
Collector: Client

Project: DHEC00105
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
-----------	-----------	--------	-------------	----	----	-------	----	---------	------	------	-------	--------

Rad Gamma Spec Analysis

GammaSpec, Gamma, Liquid (Standard List)

Rad Gas Flow Proportional Counting

GFPC, Gross Alpha/Beta, liquid

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Liquid

Tritium	U	ND	+/-332	548	700	pCi/L		BXF1	08/29/07	1919	665053	3
---------	---	----	--------	-----	-----	-------	--	------	----------	------	--------	---

Volatile Organics

GEL 8260B Method List Liquid

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 901.1	
2	EPA 900.0	
3	EPA 906.0 Modified	
4	SW846 8260B	

Notes:

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D Results are reported from a diluted aliquot of the sample

E Organics--Concentration of the target analyte exceeds the instrument calibration range

H Analytical holding time was exceeded

J Value is estimated

M M if above MDC and less than LLD

N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Quantitation is based on nearest internal standard response factor

N/A RPD or %Recovery limits do not apply.

ND Analyte concentration is not detected above the detection limit

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Report Date: August 31, 2007

Contact: Mr. Mike Gandy

Project: SC DHEC ChemNuc GW

Page 2 of 2

Client Sample ID: 082707-035
Sample ID: 192569010

Project: DHEC00105
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
-----------	-----------	--------	-------------	----	----	-------	----	---------	------	------	-------	--------

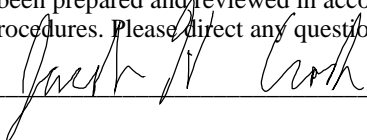
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Page 1 of 2

Client Sample ID: 082707-036
Sample ID: 192569011
Matrix: Ground Water
Collect Date: 27-AUG-07 15:45
Receive Date: 28-AUG-07
Collector: Client

Project: DHEC00105
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Rad Gamma Spec Analysis

GammaSpec, Gamma, Liquid (Standard List)

Rad Gas Flow Proportional Counting

GFPC, Gross Alpha/Beta, liquid

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Liquid

Tritium	U	ND	+/-324	553	700	pCi/L		BXF1	08/29/07	1935	665053	3
---------	---	----	--------	-----	-----	-------	--	------	----------	------	--------	---

Volatile Organics

GEL 8260B Method List Liquid

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 901.1	
2	EPA 900.0	
3	EPA 906.0 Modified	
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E Organics--Concentration of the target analyte exceeds the instrument calibration range

H Analytical holding time was exceeded

J Value is estimated

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N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Quantitation is based on nearest internal standard response factor

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Project: SC DHEC ChemNuc GW

Page 2 of 2

Client Sample ID: 082707-036
Sample ID: 192569011

Project: DHEC00105
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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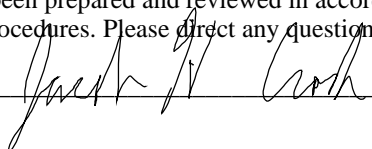
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Contact: Mr. Mike Gandy

Project: SC DHEC ChemNuc GW

Page 1 of 2

Client Sample ID: 082707-037
Sample ID: 192569012
Matrix: Ground Water
Collect Date: 27-AUG-07 16:00
Receive Date: 28-AUG-07
Collector: Client

Project: DHEC00105
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Rad Gamma Spec Analysis

GammaSpec, Gamma, Liquid (Standard List)

Rad Gas Flow Proportional Counting

GFPC, Gross Alpha/Beta, liquid

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Liquid

Tritium	U	ND	+/-317	549	700	pCi/L		BXF1	08/29/07	1952	665053	3
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Volatile Organics

GEL 8260B Method List Liquid

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 901.1	
2	EPA 900.0	
3	EPA 906.0 Modified	
4	SW846 8260B	

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H Analytical holding time was exceeded

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M M if above MDC and less than LLD

N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Quantitation is based on nearest internal standard response factor

N/A RPD or %Recovery limits do not apply.

ND Analyte concentration is not detected above the detection limit

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Certificate of Analysis

Company : SC DHEC
Address : 2600 Bull Street
Columbia, South Carolina 29201

Contact: Mr. Mike Gandy
Project: SC DHEC ChemNuc GW

Report Date: August 31, 2007

Page 2 of 2

Client Sample ID: 082707-037
Sample ID: 192569012

Project: DHEC00105
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
-----------	-----------	--------	-------------	----	----	-------	----	---------	------	------	-------	--------

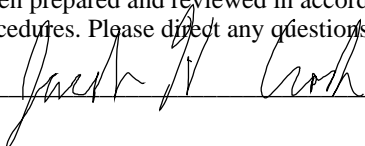
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Page 1 of 2

Client Sample ID: 082707-038
Sample ID: 192569013
Matrix: Ground Water
Collect Date: 27-AUG-07 16:30
Receive Date: 28-AUG-07
Collector: Client

Project: DHEC00105
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Rad Gamma Spec Analysis

GammaSpec, Gamma, Liquid (Standard List)

Rad Gas Flow Proportional Counting

GFPC, Gross Alpha/Beta, liquid

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Liquid

Tritium	U	ND	+/-319	547	700	pCi/L		BXF1	08/29/07	2008	665053	3
---------	---	----	--------	-----	-----	-------	--	------	----------	------	--------	---

Volatile Organics

GEL 8260B Method List Liquid

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 901.1	
2	EPA 900.0	
3	EPA 906.0 Modified	
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Quantitation is based on nearest internal standard response factor

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Project: SC DHEC ChemNuc GW

Page 2 of 2

Client Sample ID: 082707-038
Sample ID: 192569013

Project: DHEC00105
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
-----------	-----------	--------	-------------	----	----	-------	----	---------	------	------	-------	--------

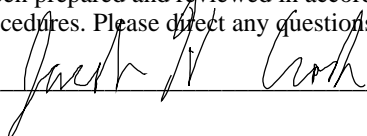
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Contact: Mr. Mike Gandy

Project: SC DHEC ChemNuc GW

Page 1 of 2

Client Sample ID: 082807-039
Sample ID: 192569014
Matrix: Ground Water
Collect Date: 28-AUG-07 10:15
Receive Date: 28-AUG-07
Collector: Client

Project: DHEC00105
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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Rad Gamma Spec Analysis

GammaSpec, Gamma, Liquid (Standard List)

Rad Gas Flow Proportional Counting

GFPC, Gross Alpha/Beta, liquid

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Liquid

Tritium	U	ND	+/-348	553	700	pCi/L		BXF1	08/29/07	2024	665053	3
---------	---	----	--------	-----	-----	-------	--	------	----------	------	--------	---

Volatile Organics

GEL 8260B Method List Liquid

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 901.1	
2	EPA 900.0	
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- J Value is estimated
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- N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
- N/A RPD or %Recovery limits do not apply.
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Report Date: August 31, 2007

Page 2 of 2

Client Sample ID: 082807-039
Sample ID: 192569014

Project: DHEC00105
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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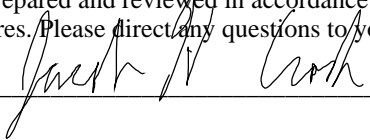
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Report Date: August 31, 2007

Contact: Mr. Mike Gandy

Project: SC DHEC ChemNuc GW

Page 1 of 2

Client Sample ID: 082807-040
Sample ID: 192569015
Matrix: Ground Water
Collect Date: 28-AUG-07 10:45
Receive Date: 28-AUG-07
Collector: Client

Project: DHEC00105
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
-----------	-----------	--------	-------------	----	----	-------	----	---------	------	------	-------	--------

Rad Gamma Spec Analysis

GammaSpec, Gamma, Liquid (Standard List)

Rad Gas Flow Proportional Counting

GFPC, Gross Alpha/Beta, liquid

Rad Liquid Scintillation Analysis

LSC, Tritium Dist, Liquid

Tritium	U	ND	+/-317	553	700	pCi/L		BXF1	08/29/07	2041	665053	3
---------	---	----	--------	-----	-----	-------	--	------	----------	------	--------	---

Volatile Organics

GEL 8260B Method List Liquid

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 901.1	
2	EPA 900.0	
3	EPA 906.0 Modified	
4	SW846 8260B	

Notes:

The Qualifiers in this report are defined as follows :

** Analyte is a surrogate compound

< Result is less than value reported

> Result is greater than value reported

A The TIC is a suspected aldol-condensation product

B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.

BD Results are either below the MDC or tracer recovery is low

C Analyte has been confirmed by GC/MS analysis

D Results are reported from a diluted aliquot of the sample

E Organics--Concentration of the target analyte exceeds the instrument calibration range

H Analytical holding time was exceeded

J Value is estimated

M M if above MDC and less than LLD

N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).

Quantitation is based on nearest internal standard response factor

N/A RPD or %Recovery limits do not apply.

ND Analyte concentration is not detected above the detection limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : SC DHEC
Address : 2600 Bull Street
Columbia, South Carolina 29201

Report Date: August 31, 2007

Contact: Mr. Mike Gandy

Project: SC DHEC ChemNuc GW

Page 2 of 2

Client Sample ID: 082807-040
Sample ID: 192569015

Project: DHEC00105
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%

R Sample results are rejected

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

UI Gamma Spectroscopy--Uncertain identification

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

h Preparation or preservation holding time was exceeded

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Jake Crook.

Reviewed by

